

Exercise 1 In each part, an invertible function f will be defined. For each function, find its inverse.

(a) $f(x) = 2x - 6$

$$f^{-1}(x) = \boxed{\frac{6+x}{2}}$$

(b) $f(x) = 29 - x$

$$f^{-1}(x) = \boxed{29 - x}$$

(c) $f(x) = \frac{x-3}{2} + 3$

$$f^{-1}(x) = \boxed{2x - 3}$$

(d) $f(x) = \sqrt{5x-1} + 3$

$$f^{-1}(x) = \boxed{\frac{(x-3)^2 + 1}{5}}$$